Name of the work	PROJECT:PROPOSED CONSTRUCTION OF RAJARAJESHWARI SCHOOL (KALPANA ROAD) BUILDING IN WARD NO.17 J.P.PARK, BANGALORE
Name of Client	Executive Engineer, Project Division, R R Nagar Zone, BBMP Banglore.
Name of the contractor/Agency:	M/S M R Infra, No.123/30, 4th Floor, 1st Main Road, Rajajinagar Industrial Town, Bangalore-10.
Agreement No.	EE(P)/RRN/AGR/35/2021-22 Dated: 10.01.2022
Work Order No.	EE(Proj)/RRN/WO.No/32/2021-22 Dated: 11.01.2022
Contract Amount	Rs. 8,00,00,000.00
Consultancy Charges Amount	Rs. 7,99,000.00
Consultant Start Date of the work	11-Jan-22
Date Of Inspection	22-Feb-22
Bill Status	1st and Part Bill
In The Presence of	Assistant Engineer, Ward No. 17, Project Division, R R Nagar Zone, BBMP, Banglore.
	Channakeshava, Engineer, M/S Ess Ess Builders, PMC Consultants, Bangiore-72

RA BILL: 01 and Part

Project Schedule

Sl No	Boq Item No	Description	Unit	BOQ Qty	Present Measurements Qty	Start Date	End Date	Nos Of Working Days
1	1	Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300 mm, removalof stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned, including removal and disposal of top organic soil not exceeding 150 mm in thickness complete as per specifications. II. By Mechanical Means A In area of light	Ha	1.00	0.97	13-Nov-21	14-Nov-21	2
2	2	Earth work for lowering and levelling the ground other than foundation works by mechanical means upto 3.00 depth, including providing shoring strutting and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, filling back the excavated earth to the extent required & utilising/transporting the remaining earth upto 1.00 km lead. Including the cost of labour & HOM as per drawing and technical specification	Cum	2888.00	2888.00	15-Nov-21	18-Nov-21	4
3	3	Earth work excavation for foundation of structures upto 3 mtrs by mechanical means as per drawing and technical specification, including setting out, providing shoring, strutting and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, filling back the excavated earth to the extent required and utilising / transporting the remaining earth upto 1.00km lead, including cost of labour, materials and HOM etc , complete. - do - In all types of soils	Cum	2083.65	1573.46	19-Nov-21	22-Nov-21	4
4	4	Earthwork excavation by manual means for foundation of buildings, water supply and sanitary lines and electrical conduits etc, either in pits or in trenches 1.5m and above in width, in soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m including breaking of clods complete as per specifications	Cum	863.40	872.92	24-Nov-21	28-Nov-21	4
5	5	Providing sand and cement piles with all leads and lift of 1.5 m for stabilising foundation after duly making 5 cms. dia holes to a depth of 1.2 to 1.5 m at 0.5 m c/c and filling with sand and 10% cement and tamping wherever required including cost of materials, labour complete as per specifications.	Sqm	1161.50	1737.09	28-Nov-21	29-Nov-21	2
6	6	Providing and injecting chemical emulsion for Pre-constructional Anti-Termite Treatment, creating continuous chemical barrier under and around the column pits, walls, trenches, basement excavation, top surface of the plinth filling, junction of wall and floor,along the external perimeter of building,expansion joints,over the top surface of consolidated earth on which apron is to be laid,surrounding of pipes and conduits with chloropyriphos emulsifiable concentrates of 20% concentration,including cost of chemical,diluting in water to one percent concentration, labour, HOM of equipments, complete as per specifications.(Plinth area of the building at ground floor only shall be measured	Sqm	1126.50	1126.50	1-Dec-21	2-Dec-21	2
7	7	Providing and Filling in foundation with granite / trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift, complete as per specifications	Cum	232.30	232.30	9-Dec-21	12-Dec-21	4

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AE / JE(P) RRN

Assistant Executive Engineer (Project)
Bruhat Bangalore Mahanagar Palike
Rajarajeshwari Nagar Zone

ESS ESS BUILDERS Bengaluru & Hassan Reg No 2555343 Consulting Engineers

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RA BILL: 01st and Part

Project Schedule

Sl No	Boq Item No	Description	Unit	BOQ Qty	Present Measurements Qty	Start Date	End Date	Nos Of Working Days
8	8	Providing and filling sand in foundation upto plinth to required depth for sub soil treatment including watering ramming with all lead and lift complete as per specifications.	Cum	56.1	56.10	13-Dec-21	13-Dec-21	1
9	11	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm & down size graded grinite metel coarse aggregates @ 0.892 cum & fine aggregates @ 0.465 cum machine mixed, machine mixed, concrete laid in layers not exceeding 15cms, thick well compacted, in foundation & plinth, cost of all materials, labour, HOM of machinery, curing complete as per specification.	Cum	252.65	143.28	13-Dec-21	13-Dec-21	1
10	18	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., with all lead and lift etc., complete (exculsive of cost of steel and fabrication charges) FOOTING & COLUMN	Cum	734	33.19	1-Dec-21	15-Dec-21	15
11	9	Earthwork excavation in all soil deposits and filling sides of foundation upto plinth in layers not exceeding 20cms. in depth, compacting each deposited layer by ramming after watering with all lead and lift including cost of all labour complete as per specifications specification	Cum	1021	1021.00	16-Dec-21	17-Dec-21	2
12	10	Loading and Unloading of Stone Boulders/Stone Aggregates/sand/Kanker/moorum by Manual Means complete as per specifications. MORTH -100/ Chapter 1 & cost of Haulage excluding loading & unloading - 15 km	Cum	2888	2888.00	18-Dec-21	19-Dec-21	2
13	53	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.	Cum	58.4	54.83	20-Dec-21	24-Dec-21	4
14	11	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm & down size graded grinite metel coarse aggregates @ 0.892 cum & fine aggregates @ 0.465 cum machine mixed, machine mixed, concrete laid in layers not exceeding 15cms, thick well compacted, in foundation & plinth, cost of all materials, labour, HOM of machinery, curing complete as per specification	Cum	252.65	0.00	26-Dec-21	27-Dec-21	2
15	11	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm & down size graded grinite metel coarse aggregates @ 0.892 cum & fine aggregates @ 0.465 cum machine mixed, machine mixed, concrete laid in layers not exceeding 15cms, thick well compacted, in foundation & plinth, cost of all materials, labour, HOM of machinery, curing complete as per specification.	Cum	252.65	0.00	1-Jan-22	5-Jan-22	5
16	19	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., with all lead and lift etc., complete (exculsive of cost of steel and fabrication charges) GRADE BEAM	Cum	428.6	0.76	12-Jan-22	13-Jan-22	2
17	18	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., with all lead and lift etc., complete (exculsive of cost of steel and fabrication charges) FOOTING & COLUMN	Cum	734	635.50	17-Jan-22	18-Jan-22	2
18	21	Providing and removing centering, shuttering, strutting, propping etc., an removal of form work for Foundation , footing , bases of columns for mass concrete including cost of all materials, labour complete as per specifications	Sqm	818.94	794.38	18-Jan-22	18-Jan-22	1
19	48	Providing TMT Steel reinforcement for RCC works including straightening, cutting, bending, hooking, placing in position lapping and / or welding wherever required, tieng with binding wire and anchoring to the adjoining members wherever necessary, complete as per design (laps, hooks and wastage shall not be measured and paid) cost of all materials, labour, HOM of machineries etc., complete as per specifications. Specification No.KBS 4.6.3. FOR TMT Bars Fe- 500 GROUND FLOOR	Sqm	90.53	90.53	24-Dec-21	2-Jan-22	10

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AE / JE (P) RRN

Assistant Executive Engineer (Project)
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Rajarajeshwari Nagar Zone

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RA BILL: 01st and Part

Project Schedule

Sl No	Boq Item No	Description	Unit	BOQ Qty	Present Measurements Qty	Start Date	End Date	Nos Of Working Days
20	27	Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / rectangular / polygon in plan including cost of all materials, labour complete as per specification. GROUND FLOOR	Sqm	627.5	627.50	24-Dec-21	2-Jan-22	10
21	13	Providing & laying IN POSITION REINFORCED CEMENT CONCRETE of design mix M25 with OPC cement @ 340 Kgs with down size graded grinite metel coarse aggregates @ 0.70 Cum & fine aggregates @ 0.47 Cum with super plastisiser @ 3.0 Ltrs confirming to IS 9103-1999, re affirmed - 2008, Maichine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation ,Plinth,& Ground floor Level for Roof Slab, Staircase, Lintels, Retaining Wall, Pires, Abutments, Pillers, Posts, Struts, Butteress, String or Lasing Corsess, Prapeets Copings, Bed Blocks, anchor blocks, plain windows cills, fillets, etc including cost of all materials, laobur HOM of machinary, curing complete as per specification Ground floor	Cum	26.7	26.70	24-Jan-22	24-Jan-22	1
22	40	Providing and laying in position reinforced cement cocnrete of design mix M20 with OPC cement @ 27.20 Kgs with 12mm & down sizes graded grantie metal coarse aggregated @ 0.5865 cum & fine aggregates, @ 0.391 Cum with super super plastisiser @ 0.225 Ltrs maichine mixed well compacted plain chajja 8.50 Cms avg thickness, up to ground floor level including removing centering, shuttering, strutting, propping etc., and removal of form work for cost of all materials, laobur HOM of machinary, curing complete as per specification GROUND FLOOR	Sqm	48	43.91	24-Jan-22	24-Jan-22	1
23	19	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., with all lead and lift etc., complete (exculsive of cost of steel and fabrication charges) GRADE BEAM	Cum	428.6	140.71	9-Feb-22	11-Feb-22	3
24	22	Providing and removing centering, shuttering, strutting, propping etc., an removal of form work for sides & soffits of beams, beam hauncing cantilever girders, bressumers & lintels & not exceeding 1.0 in depth including cost of all materials, labour complete as per specifications GROUND FLOOR	Sqm	1907.1	1907.10	5-Feb-22	8-Feb-22	4
25	45	Providing and removing centering, shuttering, strutting, propping etc., for chajjas, corbels of all shapes & sizes, at all elevations & heights	Sqm	195	43.91	5-Feb-22	8-Feb-22	4
26	20	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., with all lead and lift etc., complete (exculsive of cost of steel and fabrication charges) ROOF SLAB	Cum	682.8	289.87	1-Feb-22	1-Feb-22	1
27	20	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., with all lead and lift etc., complete (exculsive of cost of steel and fabrication charges) ROOF SLAB	Cum	682.8	289.87	9-Feb-22	9-Feb-22	1
28	32	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications. Specification upto 3.5 m from Ground level - GROUND FLOOR	Sqm	1153.6	1153.60	5-Feb-22	8-Feb-22	4
29	37	Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floor including cost of all materials, labour complete as per specifications. GROUND , FIRST , SECOND, THIRD FLOOR	Sqm	182.8	51.45	5-Feb-22	8-Feb-22	4
30	39	Providing and removing centring, shuttering, strutting, proping etc., and removal of form work for stairs (excluding landing) except spiral staircase including cost of all materials,labour complete as per specification and directed by the Engineer in Charge GROUND , FIRST , SECOND, THIRD FLOOR	Sqm	214	84.96	5-Feb-22	8-Feb-22	4

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B.C. Ramakrishna
AE / JE (P) RRN

B.C. Ramakrishna
Assistant Executive Engineer (Project)
Bruhat Bangalore Mahanagar Palike
Rajarajeshwari Nagar Zone

Consultant & Hassan Reg No 2555343 Consulting Engineer & Architect

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RA BILL: 01st and Part

Project Schedule

Sl No	Boq Item No	Description	Unit	BOQ Qty	Present Measurements Qty	Start Date	End Date	Nos Of Working Days
31	48	Providing TMT Steel reinforcement for RCC works including straightening, cutting, bending, hooking, placing in position lapping and / or welding wherever required, tieng with binding wire and anchoring to the adjoining members wherever necessary, complete as per design (laps, hooks and wastage shall not be measured and paid) cost of all materials, labour, HOM of machineries etc., complete as per specifications. Specification No.KBS 4.6.3. FOR TMT Bars Fe- 500. GROUND FLOOR	Sqm	90.53	0.00	5-Jan-22	8-Feb-22	4
32	54	Providing and constructing burnt brick masonry with approved quality of modular bricks of standard size of class designation 5.0 newton per sq mm (table moulded) with cement mortar 1.4 for basement and superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications.GROUND FLOOR	Cum	209.1	209.10	18-Jan-22	8-Feb-22	22
33	59	Construction of partition wall 11.2 cms thick with non modular table moulded burnt bricks of class designation 5.0Newton per Sqmm with cement mortar 1:4 including cost of materials, labour charges, scaffolding, curing complete as per specifications. GROUND FLOOR	Sqm	24	24.00	4-Feb-22	8-Feb-22	5
34	164	Geophysical investigation of site for sinking Bore - well for supplying drinking water to the habitation either through the Hand Pump, MWS or PWSS by vertical electrical sounding by adopting Veneer on Schlumbergers method, including reconnaissance survey of geological formation, geophysical investigation of existing ground water in the vicinity, its quality quantity & accept - ability of the users indicating the location site, recommended depth of casing pipe required to seal the top unconsolidated formation, including an extra depth of 1.0 mtrs in consolidated formation for proper seating of casting depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site, engaging technical personnel and labour required etc	Each	1	1.00	14-Nov-21	14-Nov-21	1
35	165	Sinking of Borewell of 165mm dia clear, using superfast Hydraulic rig of capacity 250 PSIG and above 900 CFM and above in all strata including over burden upto 20m fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of Rig & supporting vehicle, crew charges & cost of consumables etc., complete including yield testing and the final depth with a minimum working compressor for one hour (excluding cost of casting pipes, collars and cap etc. 2.1 - 0.00 to 50.00 mtrs	Each	50	50.00	15-Nov-21	15-Nov-21	1
36	166	Sinking of Borewell of 165mm dia clear, using superfast Hydraulic rig of capacity 250 PSIG and above 900 CFM and above in all strata including over burden upto 20m fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of Rig & supporting vehicle, crew charges & cost of consumables etc., complete including yield testing and the final depth with a minimum working compressor for one hour (excluding cost of casting pipes, collars and cap etc. 2.2 - 50.00 to 100.00mtrs	Each	50	50.00	15-Nov-21	15-Nov-21	1
37	167	Sinking of Borewell of 165mm dia clear, using superfast Hydraulic rig of capacity 250 PSIG and above 900 CFM and above in all strata including over burden upto 20m fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of Rig & supporting vehicle, crew charges & cost of consumables etc., complete including yield testing and the final depth with a minimum working compressor for one hour (excluding cost of casting pipes, collars and cap etc. 2.3 - 100.00 to 150.00 mtrs	Each	50	50.00	15-Nov-21	15-Nov-21	1
38	168	Sinking of Borewell of 165mm dia clear, using superfast Hydraulic rig of capacity 250 PSIG and above 900 CFM and above in all strata including over burden upto 20m fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of Rig & supporting vehicle, crew charges & cost of consumables etc., complete including yield testing and the final depth with a minimum working compressor for one hour (excluding cost of casting pipes, collars and cap etc. 2.4 - 150.00 to 200.00 mtrs	Each	50	50.00	15-Nov-21	15-Nov-21	1

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ESS ESS Engineers Bangaluru & Hassan Reg No 2555343

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RA BILL: 01st and Part

Project Schedule

Sl No	Boq Item No	Description	Unit	BOQ Qty	Present Measurements Qty	Start Date	End Date	Nos Of Working Days
39	169	Sinking of Borewell of 165mm dia clear, using superfast Hydraulic rig of capacity 250 PSIG and above 900 CFM and above in all strata including over burden upto 20m fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of Rig & supporting vehicle, crew charges & cost of consumables etc., complete including yield testing and the final depth with a minimum working compressor for one hour (excluding cost of casting pipes, collars and cap etc 2.5 - 200.00 to 250.00 mtrs	Each	50	50.00	15-Nov-21	15-Nov-21	1
40	170	Sinking of Borewell of 165mm dia clear, using superfast Hydraulic rig of capacity 250 PSIG and above 900 CFM and above in all strata including over burden upto 20m fixing of casing pipes, collars and cap with necessary cutting, threading and welding including transportation of Rig & supporting vehicle, crew charges & cost of consumables etc., complete including yield testing and the final depth with a minimum working compressor for one hour (excluding cost of casting pipes, collars and cap etc. 2.6 - 250.00 to 300.00 mtrs	Each	50	50.00	15-Nov-21	15-Nov-21	1
41	171	Supply of ISI mark 175 mm nominal bore, plain end steel casing pipe grade of steel Fe 410 of wall thickness 5 4mm thick confirming to IS 4270:2001 and latest amendments, eletric resistence welded steel tube material and confirming to IS 1387/1993 and manufactured by basic open hearth electric or basic oxygen process in random length of 5 to 7 mts. Both ends threaded confirming to IS 554/1985, one end fixed with socket conforming to IS 4270:2001 and the other end with screwed pipes. All pipes shall be reasonably free from defects. The tubes shall be reasonably straight should be with ISI marking, weighing 25.10Kg/mtr (inclusive of all taxes and duties). Prices including collar medium duty	Each	30	1.00	15-Nov-21	15-Nov-21	1
42	172	Providing and fixing 175mm dia borewell cap medium class(MR)	Nos	1	1.00	15-Nov-21	15-Nov-21	1
43	173	M.S. Casing pipe collars "B" class (MR)	Nos	5	5.00	15-Nov-21	15-Nov-21	1
44	174	Supply and delivery at site brand new submersible PUMPSET suitable for borewell of 150mm dia and haing declared duty conditions as detailed below nd satisfying performance characteristic for pump and motar as declared by Bureau of Indian Standards. The pump should confirm to IS 928 / 55 (with all its latest amendments) and should bear the ISI certification mark is 928/55. The pumpset should consist of bronze impellers, Discharge 750 lph, Head L102.88 mts 10HP /7.5KW 20 Stage. ATLANTA,Suguna, CRI, Kirloskar or other equivalent pumps	Nos	1	1.00	16-Nov-21	16-Nov-21	1
45	175	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to IS:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100Volts as per IS-694:1990. -3C X 6 0Sq mm	Nos	300	300.00	16-Nov-21	16-Nov-21	1
46	176	Erection of pumpset including aligning and balancing with all necessary erection materials and labour including supply and erection of one pair of supporting clams, borewell cap, cable clips with bolts, nuts, valve gauges etc., involved in the job. (Necessary G.I.Pipe and specials will be supplied by the board at the site free of cost)(CE (M) BWSSB. Letter No.BWSSB/CE(M)ACE(M)-II/TA-8/9194/2008-09 dated 21/1/09)	Nos	1	1.00	16-Nov-21	16-Nov-21	1
47	177	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete. 50 mm dia	Nos	2	2.00	16-Nov-21	16-Nov-21	1
48	178	Supplying fully automatic star-delta starter unit push button type with suitable wires, 3 contactors, one adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts 3 phase and wired after fixing to the existing wooden board for motor. - Above 12.5 HP upto 25 HP	Nos	1	1.00	16-Nov-21	16-Nov-21	1

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K.K. Kumar
AE / JE (P) RRN

K.K. Kumar
Assistant Executive E
R.R. Nagar Project Sub-
Bruhat Bengaluru Mahanagara Palike

ESS ESS BUILDERS & DEVELOPERS Bengaluru & Hassan Reg No 2555343 Consultant Engineer & Architects

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RA BILL: 01st and Part

Project Schedule

Sl No	Boq Item No	Description	Unit	BOQ Qty	Present Measurements Qty	Start Date	End Date	Nos Of Working Days
49	179	Erection of single phase preventer / ammeters / including fixing selector switch / voltmeter / current operated earth leakage circuit breakers / voltage operated circuit breaker / above 100A fuse channel set (3 Nos) HRC fuses above 100A (3 Nos.) / Digital ammeter/digital volt meter/set of 3 indicating lamps /MCB / Relays /A-V selector switches including wiring using suitable capacity wires, bolts, nuts,screws.	Nos	1	1.00	16-Nov-21	16-Nov-21	1
50	180	Fabricating, supplying and mounting MS box made out of 18 SWG suitable for floor/ wall mounting, fully weather proof with provision for better heat dissipation provided with hinged front cover with with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 7 Tanks Treatment wit powder coat ed paint & finaly finished with approved colour & etc	Nos	30000	30000.00	16-Nov-21	16-Nov-21	1
51	181	Supplying and fixing miniature circuit breakers/isolators on existing MCB distribution boards using necessary fixing materials and wiring complete as required - 40 to 63 amps triple pole	Nos	1	1.00	16-Nov-21	16-Nov-21	1
52	182	Supplying andrunning of GI copper strip or grounding connection using necessary fixing material required 600x600c3mm GI plate	Nos	1	1.00	16-Nov-21	16-Nov-21	1
53	183	Supplying and fixing Porcelain fuse channel with cut out on the existing wooden /panel using necessary nuts bolts and washer etc., complete.	Nos	3	3.00	16-Nov-21	16-Nov-21	1
54	184	Providing and fixing in position brass gate valve with C.I. Wheel of approved quality (screwed end) 50mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete s per specifications. Specification No.KBS 13.2.6/ 13.3	Nos	1	1.00	16-Nov-21	16-Nov-21	1
55	185	Supplying and laying of L.T.U.G cable having aluminium conductor PVC insulated sheathed galvanised steel wire/steel tape armoured cable with PVC outer sheathing 1.1 KV class 4 core 16 Sqmm PVC cable	Nos	25	25.00	16-Nov-21	16-Nov-21	1
56	186	Labour charges for Laying of 1.1 KV Class UG cable 6 Sqmm to 16 sqmm (KPWD Elec SR 2019-20 Pg no 61 sl no 7.8.1	Nos	25	25.00	16-Nov-21	16-Nov-21	1
57	187	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating in Hard soil etc., complete complete as per specifications and direction of the Engineer-in-Charge	Nos	20	20.00	16-Nov-21	16-Nov-21	1
58	188	Supplying and fixing Class-A (Medium duty) -GI pipe wall thickness not less than 3.25mm on pole/wall/Drain crossing with necessary clamping arrangements for UG Cable of 1.1 KV class 65mm	Nos	10	10.00	16-Nov-21	16-Nov-21	1
59	189	Supplying and fixing LT cast iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen / insulating compound complete. With terminals, clamps, bolts nuts and washers etc.complete for 16 Sqmm as per specification	Each	1	1.00	16-Nov-21	16-Nov-21	1
60	190	Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in Hard soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m after breaking of clods complete as per specification spacification. No KBS 2.1(b) / 2.3.5	Cum	15.75	15.75	16-Nov-21	16-Nov-21	1
61	191	Providing and Installing at site work P.V.C including cost of pipe and specials and Labour, including lowering into trenches, laying true to line level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe allround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., Complete. PVC pipes 63mmdia of 6kg/cm2 PRED SR Page NO 15.item nO 3.4.2	Cum	35	35.00	16-Nov-21	16-Nov-21	1
62	192	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specificifictions.	Cum	11.81	11.81	16-Nov-21	16-Nov-21	1

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Project Schedule

Sl No	Boq Item No	Description	Unit	BOQ Qty	Present Measurements Qty	Start Date	End Date	Nos Of Working Days
	14	Providing & laying IN POSITION REINFORCED CEMENT CONCRETE of design mix M25 with OPC cement @ 340 Kgs with down size graded grinite metel coarse aggregates @ 0.70 Cum & fine aggregates @ 0.47 Cum with super plastisiser @ 3.0 Ltrs confirming to IS 9103-1999, re affirmed - 2008, Maichine mixed, concrete laid in layers not exeeceding 15cms thick, vibrated for all works in foundation ,Plinth,& Ground floor Level for Roof Slab, Staircase, Lintels, Retaining Wall, Pires, Abutments, Pillers, Posts, Struts, Butteress, String or Lasing Corsess, Prapeets Copings, Bed Blocks, anchor blocks, plain windows cills, filliets, etc including cost of all materials, laobur HOM of machinary, curing complete as per specification. First floor	Cum	26.7	0.00	24-Feb-22	28-Feb-22	4
	15	Providing & laying IN POSITION REINFORCED CEMENT CONCRETE of design mix M25 with OPC cement @ 340 Kgs with down size graded grinite metel coarse aggregates @ 0.70 Cum & fine aggregates @ 0.47 Cum with super plastisiser @ 3.0 Ltrs confirming to IS 9103-1999, re affirmed - 2008, Maichine mixed, concrete laid in layers not exeeceding 15cms thick, vibrated for all works in foundation ,Plinth,& Ground floor Level for Roof Slab, Staircase, Lintels, Retaining Wall, Pires, Abutments, Pillers, Posts, Struts, Butteress, String or Lasing Corsess, Prapeets Copings, Bed Blocks, anchor blocks, plain windows cills, filliets, etc including cost of all materials, laobur HOM of machinary, curing complete as per specification. Second floor	Cum	26.7	0.00	29-Mar-22	6-Apr-22	9
	18	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc , with all lead and lift etc , complete. (exculsive of cost of steel and fabrication charges) FOOTING & COLUMN	Cum	73.4	0.00	24-Feb-22	29-Mar-22	2
	19	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc , with all lead and lift etc , complete (exculsive of cost of steel and fabrication charges) GRADE BEAM	Cum	428.6	0.00	7-Mar-22	18-Apr-22	42
	20	Providing and laying cement concrete using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc , with all lead and lift etc , complete (exculsive of cost of steel and fabrication charges) ROOF SLAB	Cum	682.8	0.00	7-Mar-22	18-Apr-22	42
	23	Providing and removing centering, shuttering, strutting, propping etc., an removal of form work for sides & soffits of beams, beam hauncing cantilever girders, bressumers & lintels & not exceeding 1.0 in depth including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2. First floor	Sqm	116.8	0.00	7-Mar-22	18-Apr-22	42
	24	Providing and removing centering, shuttering, strutting, propping etc., an removal of form work for sides & soffits of beams, beam hauncing cantilever girders, bressumers & lintels & not exceeding 1.0 in depth including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2. Second floor	Sqm	116.8	0.00	7-Mar-22	18-Apr-22	42
	28	Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / rectangular / polygon in plan including cost of all materials, labour complete as per specification. First floor	Sqm	393.2	0.00	7-Mar-22	18-Apr-22	42
	29	Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / rectangular / polygon in plan including cost of all materials, labour complete as per specification. Second floor	Sqm	393.2	393.20	7-Mar-22	18-Apr-22	42
	33	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications. Specification upto 3.5 m from Ground level - FIRST FLOOR	Sqm	1105.6	0.00	7-Mar-22	18-Apr-22	42

NOV	DEC	JAN	FEB

FEB	MAR	APR	MAY

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Assistant Executive Engineer (Project)
Bruhat Bangalore Mahanagar Palike
Rajarajeshwari Nagar Zone

RA BILL: 01st and Part

Project Schedule

Sl No	Boq Item No	Description	Unit	BOQ Qty	Present Measurements Qty	Start Date	End Date	Nos Of Working Days
	34	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and ilkes, thickness upto 200 mm including cost of all materials, labour complete as per specifications. Specification upto 3.5 m from Ground level - GROUND FLOOR	Sqm	1105.6	0.00	7-Mar-22	18-Apr-22	42
	37	Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floor including cost of all materials, labour complete as per specifications. GROUND , FIRST , SECOND, THIRD FLOOR	Sqm	182.8	0.00	7-Mar-22	18-Apr-22	42
	39	Providing and removing centring, shuttering, strutting, proping etc , and removal of form work for stairs (excluding landing) except spiral staircase including cost of all materials,labour complete as per specification and directed by the Engineer in Charge GROUND , FIRST , SECOND, THIRD FLOOR	Sqm	214	129.04	7-Mar-22	18-Apr-22	42
	41	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 27.20 Kgs with 12mm & down sizes graded grantie metal coarse aggregated @ 0.5865 cum & fine aggregates, @ 0.391 Cum with super super plastisiser @ 0.225 Ltrs machine mixed well compacted plain chaja 8.50 Cms avg thickness, up to ground floor level including removing centering, shuttering, strutting, propping etc., and removal of form work for cost of all materials, laobur HOM of machinary, curing complete as per specification FIRST FLOOR	Sqm	48	0.00	7-Mar-22	18-Apr-22	42
	42	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 27.20 Kgs with 12mm & down sizes graded grantie metal coarse aggregated @ 0.5865 cum & fine aggregates, @ 0.391 Cum with super super plastisiser @ 0.225 Ltrs machine mixed well compacted plain chaja 8.50 Cms avg thickness, up to ground floor level including removing centering, shuttering, strutting, propping etc., and removal of form work for cost of all materials, laobur HOM of machinary, curing complete as per specification FIRST FLOOR	Sqm	48	0.00	7-Mar-22	18-Apr-22	42
	45	Providing and removing centering, shuttering, strutting, propping etc., for chajjas, corbels of all shapes & sizes, at all elevations & heights.	Sqm	195	0.00	7-Mar-22	18-Apr-22	42
	49	Providing TMT Steel reinforcement for RCC works including straightening, cutting, bending, hooking, placing in position lapping and / or welding wherever required, tieng with binding wire and anchoring to the adjoining members wherever necessary, complete as per design (laps, hooks and wastage shall not be measured and paid) cost of all materials, labour, HOM of machineries etc , complete as per specifications Specification No.KBS 4.6.3 FOR TMT Bars Fe- 500. FIRST FLOOR	Tonne	37.8	0.00	7-Mar-22	18-Apr-22	42
	50	Providing TMT Steel reinforcement for RCC works including straightening, cutting, bending, hooking, placing in position lapping and / or welding wherever required, tieng with binding wire and anchoring to the adjoining members wherever necessary, complete as per design (laps, hooks and wastage shall not be measured and paid) cost of all materials, labour, HOM of machineries etc , complete as per specifications Specification No.KBS 4.6.3 FOR TMT Bars Fe- 500 SECOND FLOOR	Tonne	37.2	0.00	7-Mar-22	18-Apr-22	42
	54	Providing and constructing burnt brick masonry with approved quality of modular bricks of standard size of class designation 5.0 newton per sq mm (table moulded) with cement mortar 1:4 for basement and superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications GROUND FLOOR	Cum	209.1	0.00	2-Feb-22	14-Feb-22	12
	55	Providing and constructing burnt brick masonry with approved quality of modular bricks of standard size of class designation 5.0 newton per sq mm (table moulded) with cement mortar 1:4 for basement and superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications FIRST FLOOR	Cum	226	0.00	25-Feb-22	9-Mar-22	12
	56	Providing and constructing burnt brick masonry with approved quality of modular bricks of standard size of class designation 5.0 newton per sq mm (table moulded) with cement mortar 1:4 for basement and superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications SECOND FLOOR	Cum	226	0.00	25-Feb-22	9-Mar-22	12
	60	Construction of partition wall 11.2 cms thick with non modular table moulded burnt bricks of class designation 5.0Newton per Sqmm with cement mortar 1:4 including cost of materials, labour charges, scaffolding, curing complete as per specifications First FLOOR	Sqm	25	0.00	1-Apr-22	16-Apr-22	16

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Assistant Executive Engineer (Project)
Bruhat Bangalore Mahanagar Palike
Rajarajeshwari Nagar Zone

RA BILL: 01st and Part

Project Schedule

Description	Unit	BOQ Qty	Present Measurements Qty	Start Date	End Date	Nos Of Working Days
Construction of partition wall 11.2 cms thick with non modular table moulded burnt bricks of class designation 5.0Newton per Sqmm with cement mortar 1:4 including cost of materials, labour charges, scaffolding, curing complete as per specifications. Second FLOOR	Sqm	25	0.00	1-Apr-22	16-Apr-22	16

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